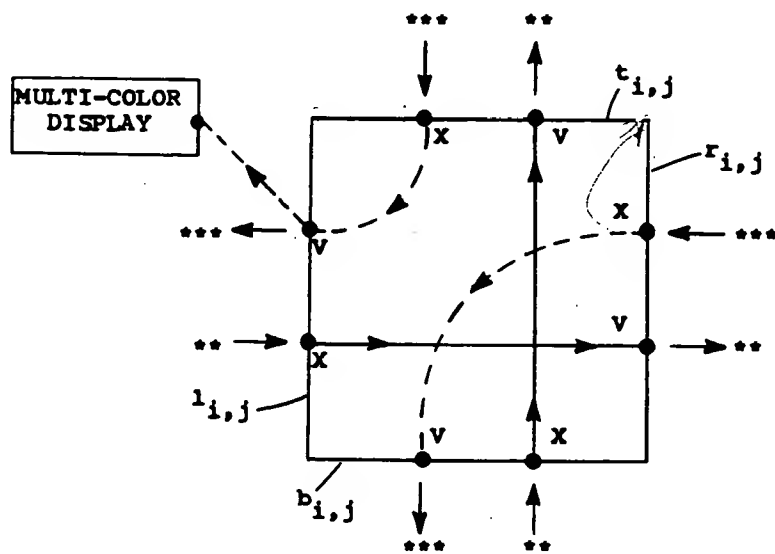
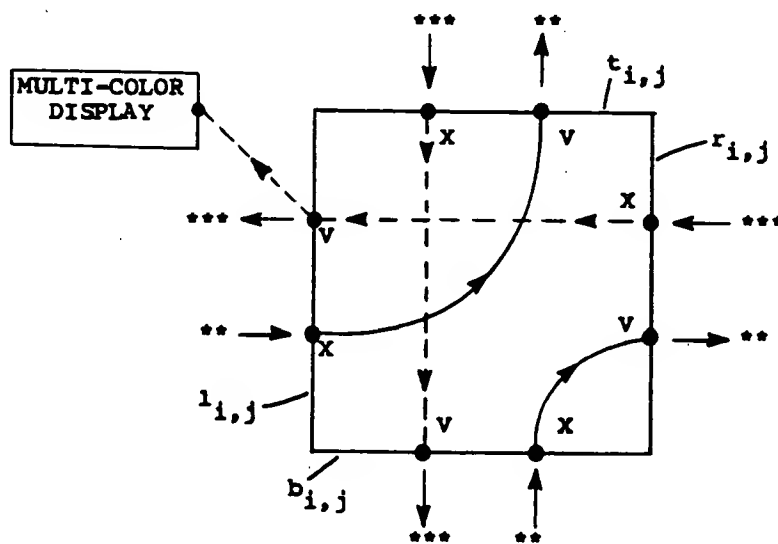


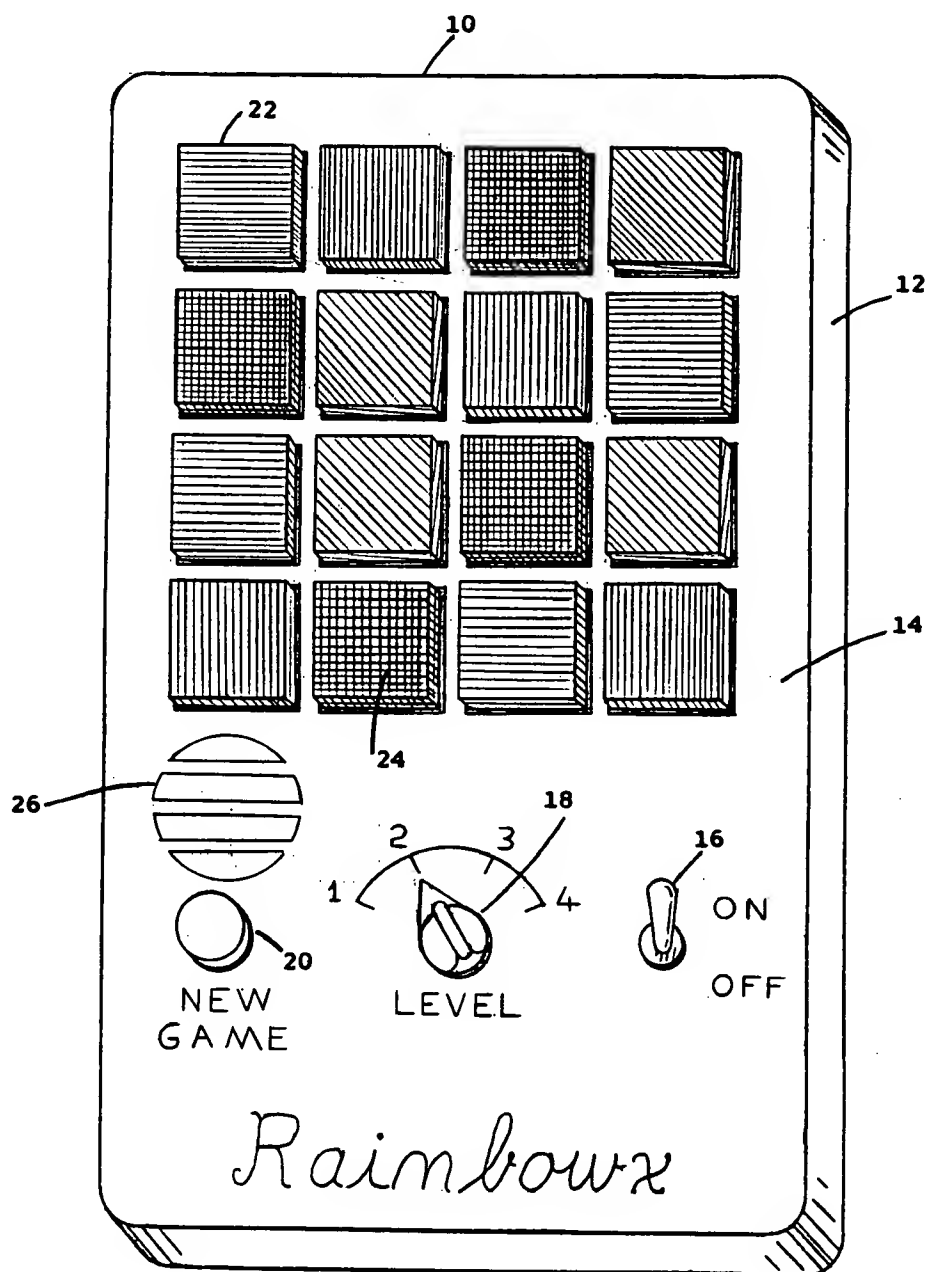
07/754485

SWITCH  $w_{i,j}$  ON ("1")SWITCH  $w_{i,j}$  OFF ("0")

LEGEND: \*\* OP-CODE  
 \*\*\* COLOR CODE

ROUTING SQUARE  $S_{i,j}$ 

FIG. 2



RAINBOWX GAME DEVICE

FIG. 3

07/754465

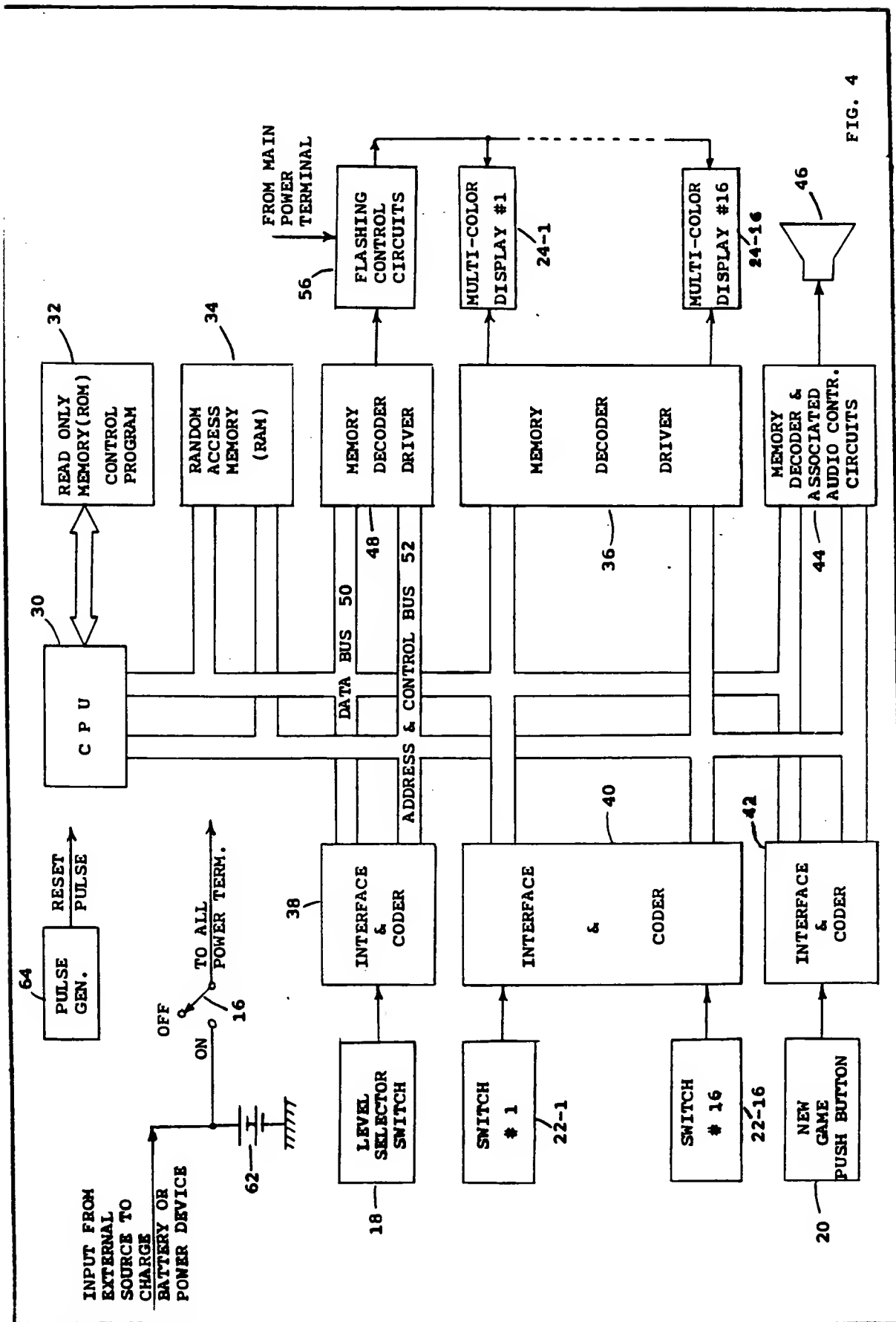


FIG. 4

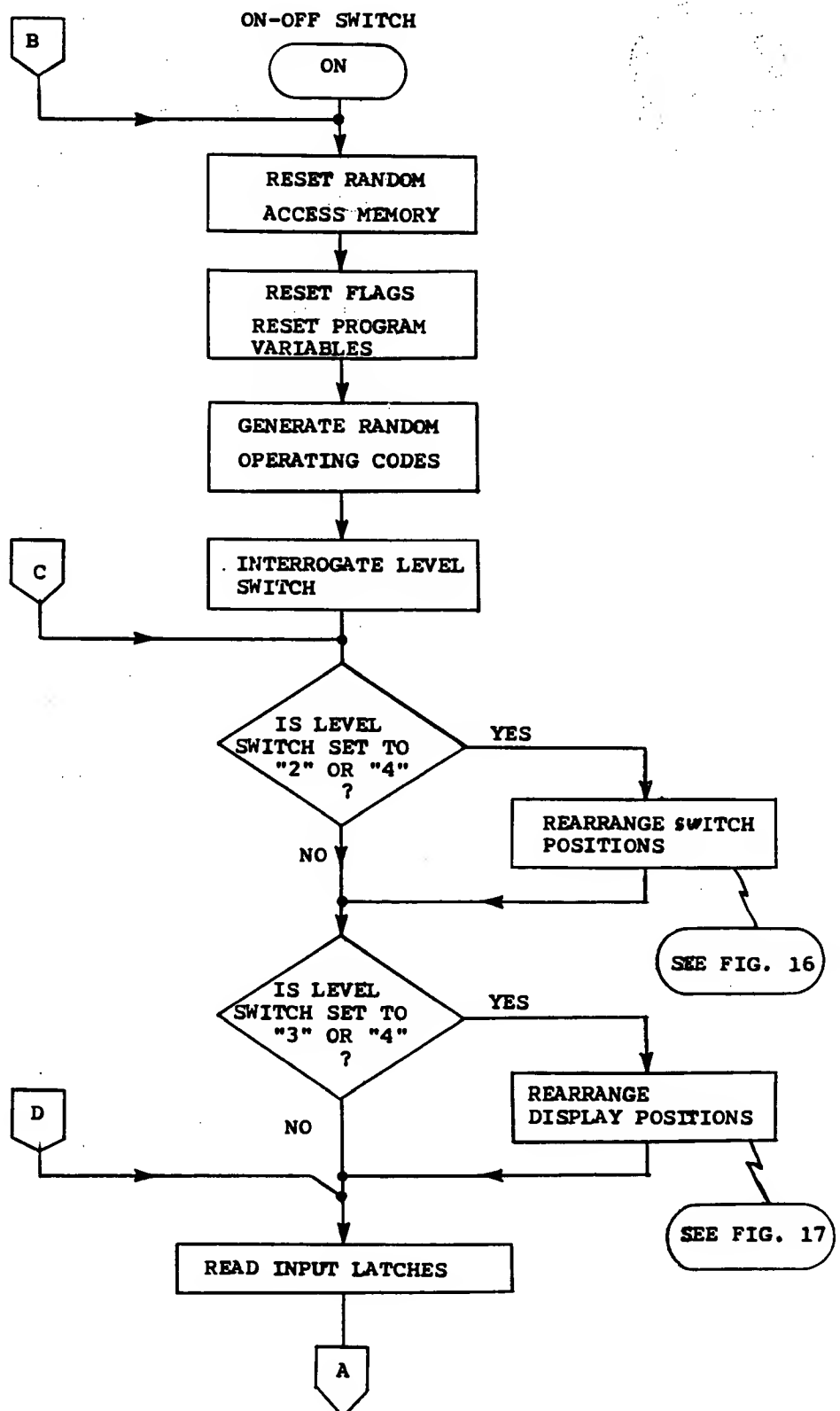


FIG. 5

01/754465

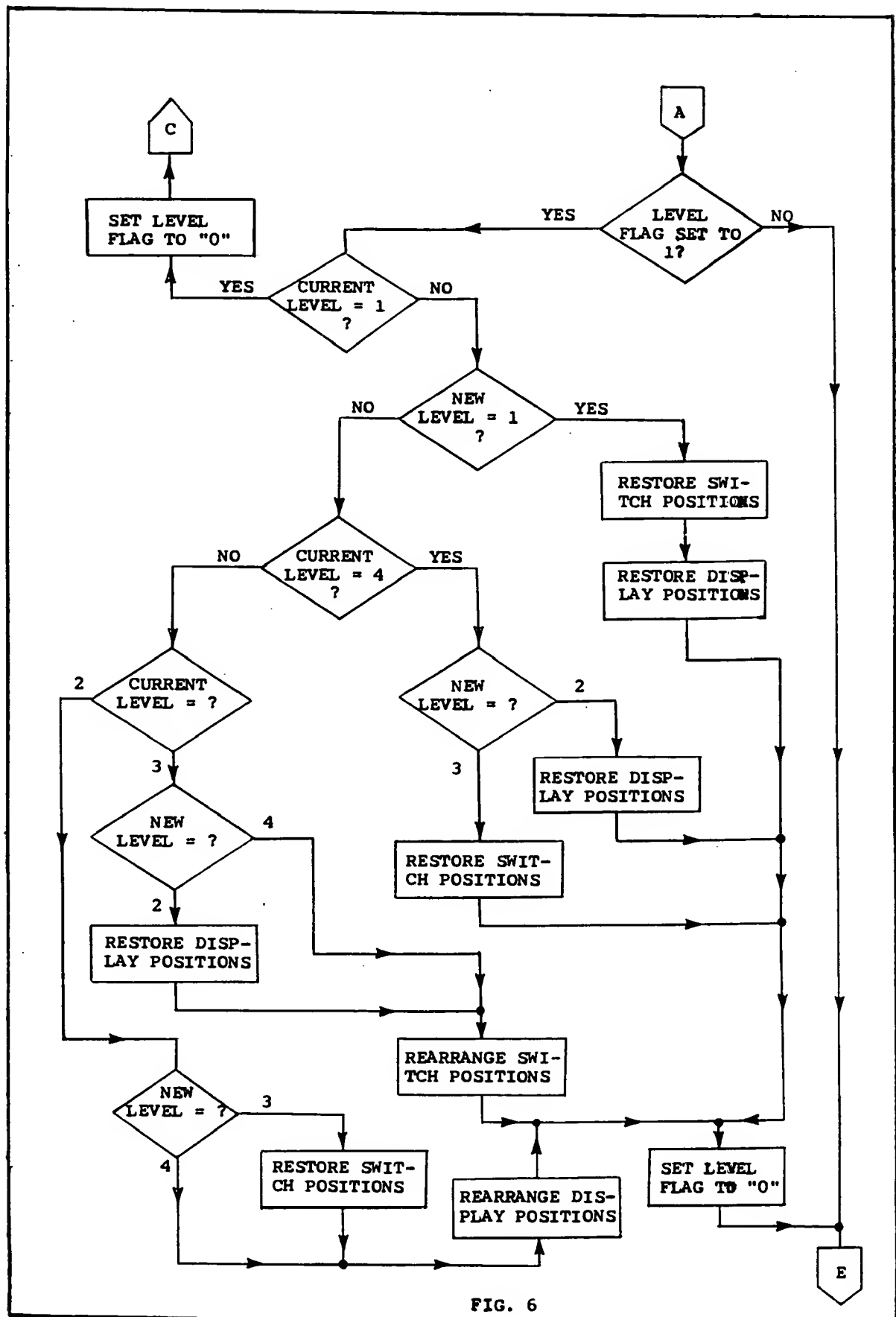


FIG. 6

07/754465

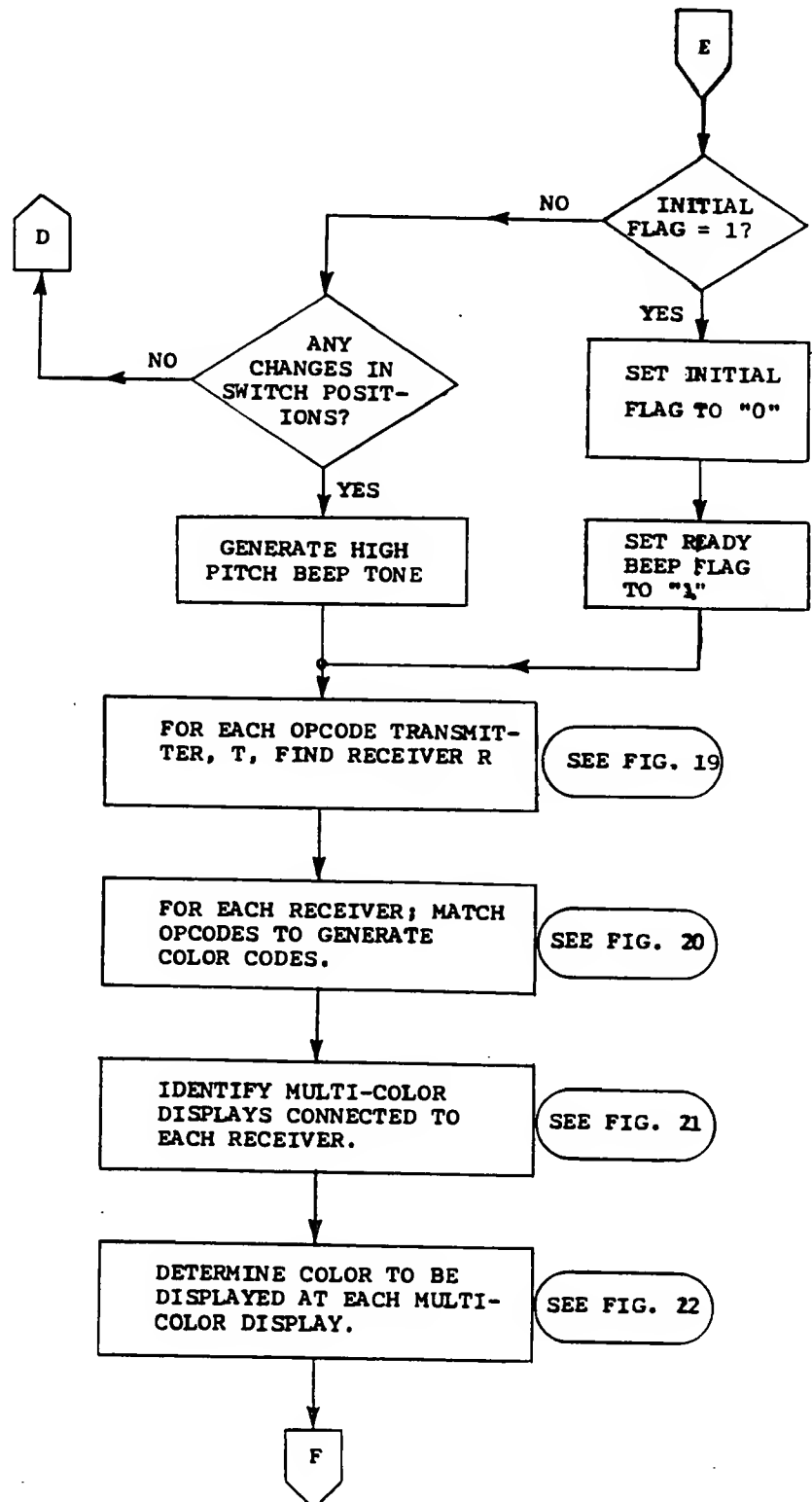


FIG. 7

07/754465

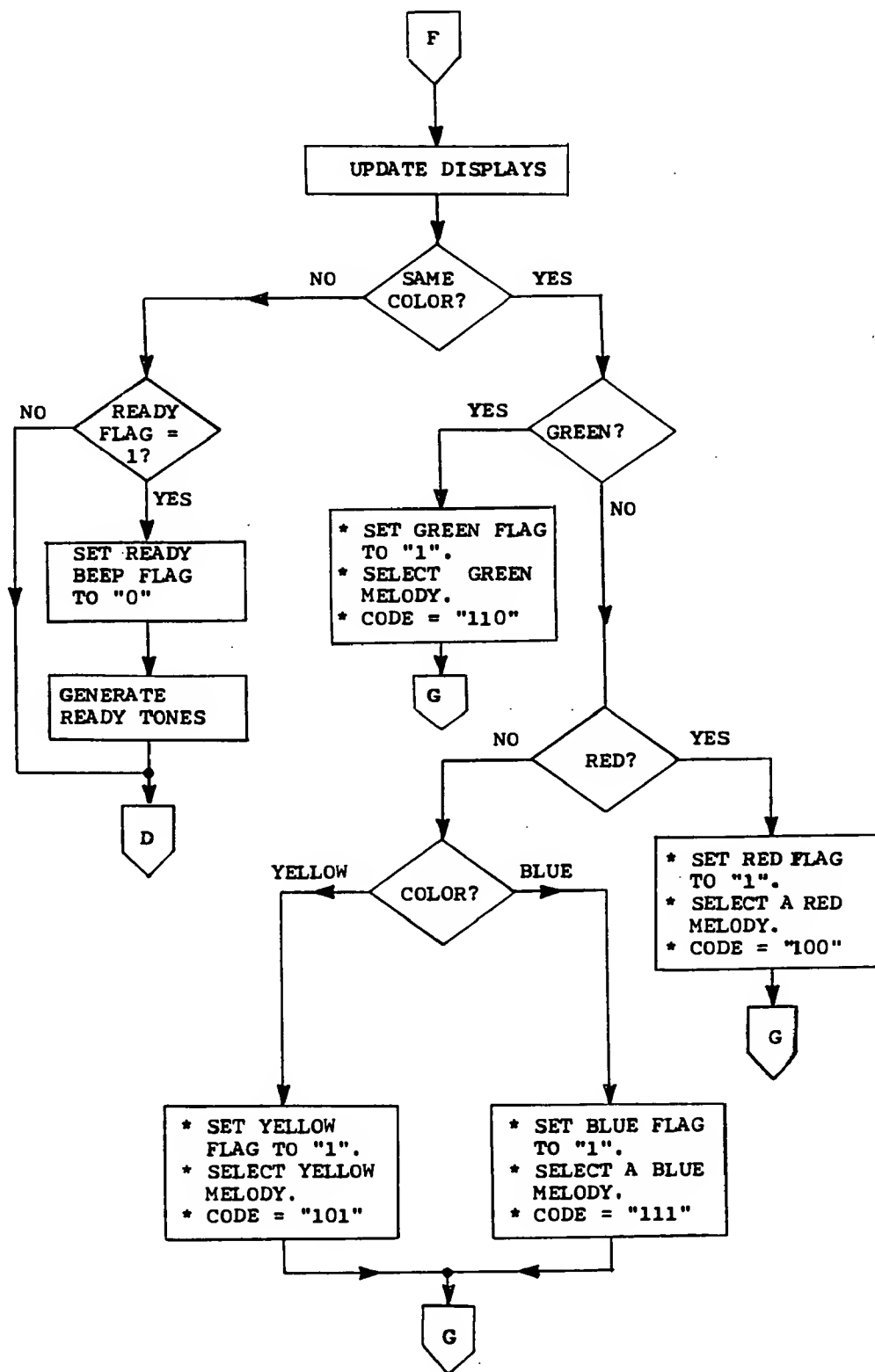


FIG. 8



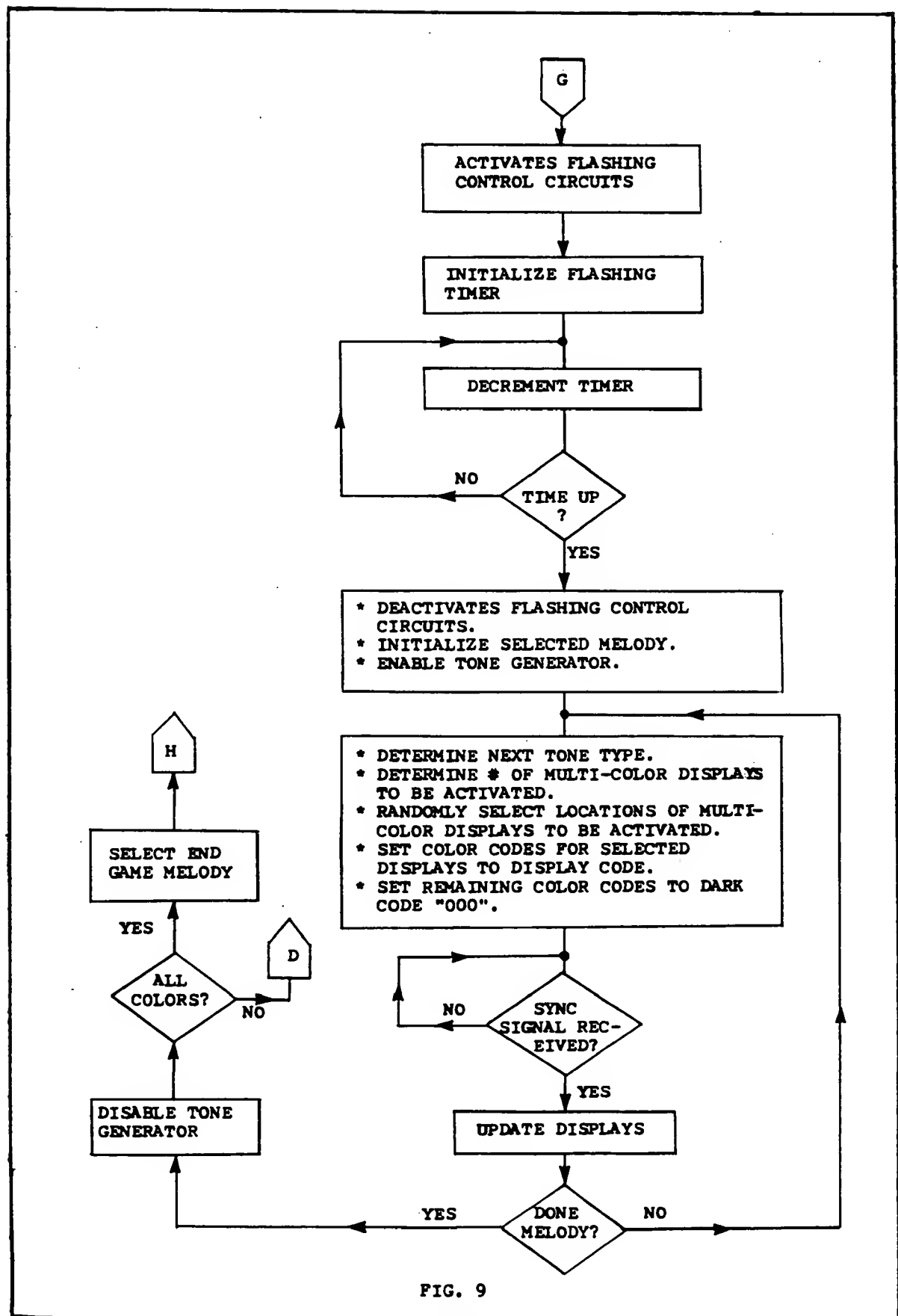


FIG. 9

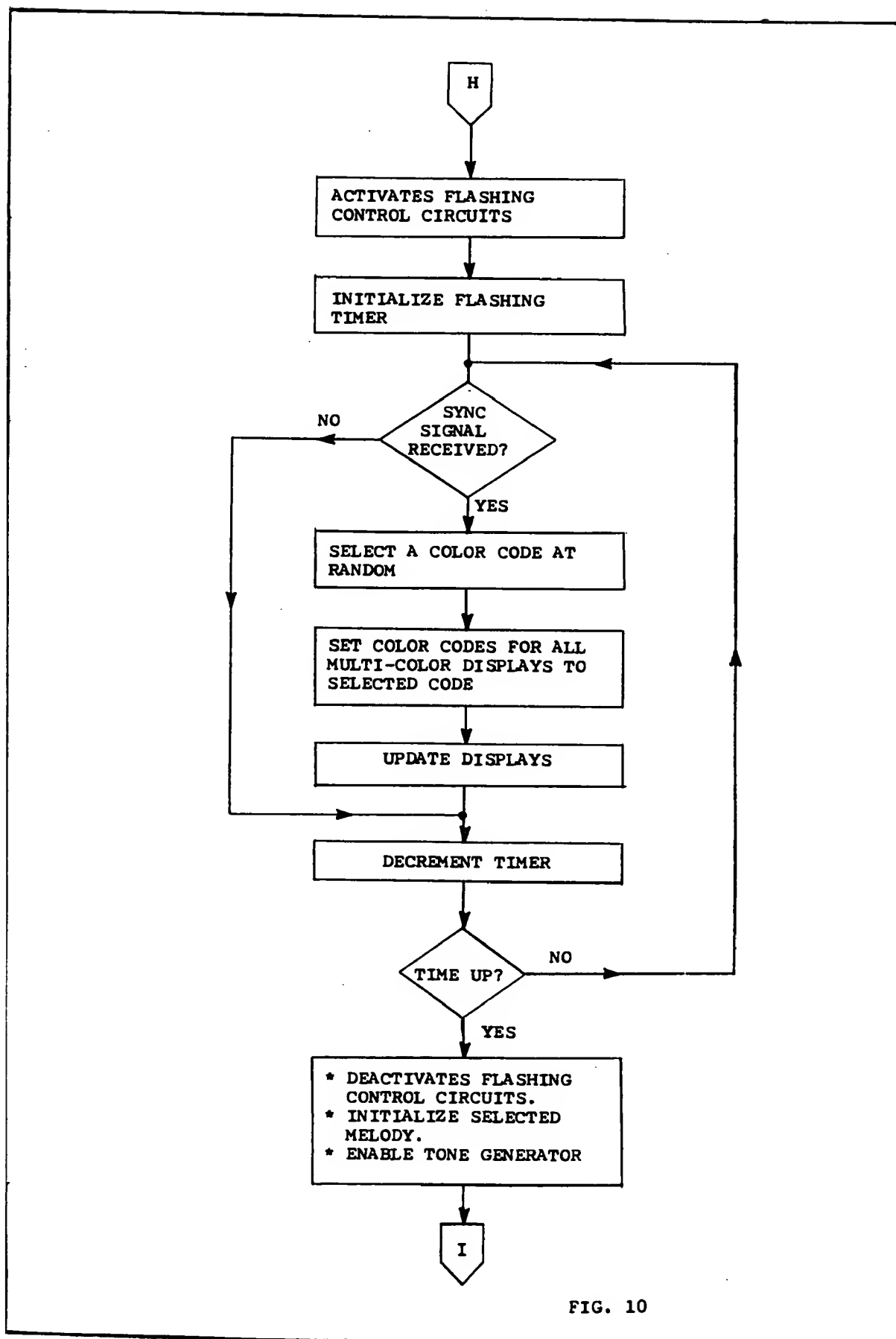


FIG. 10

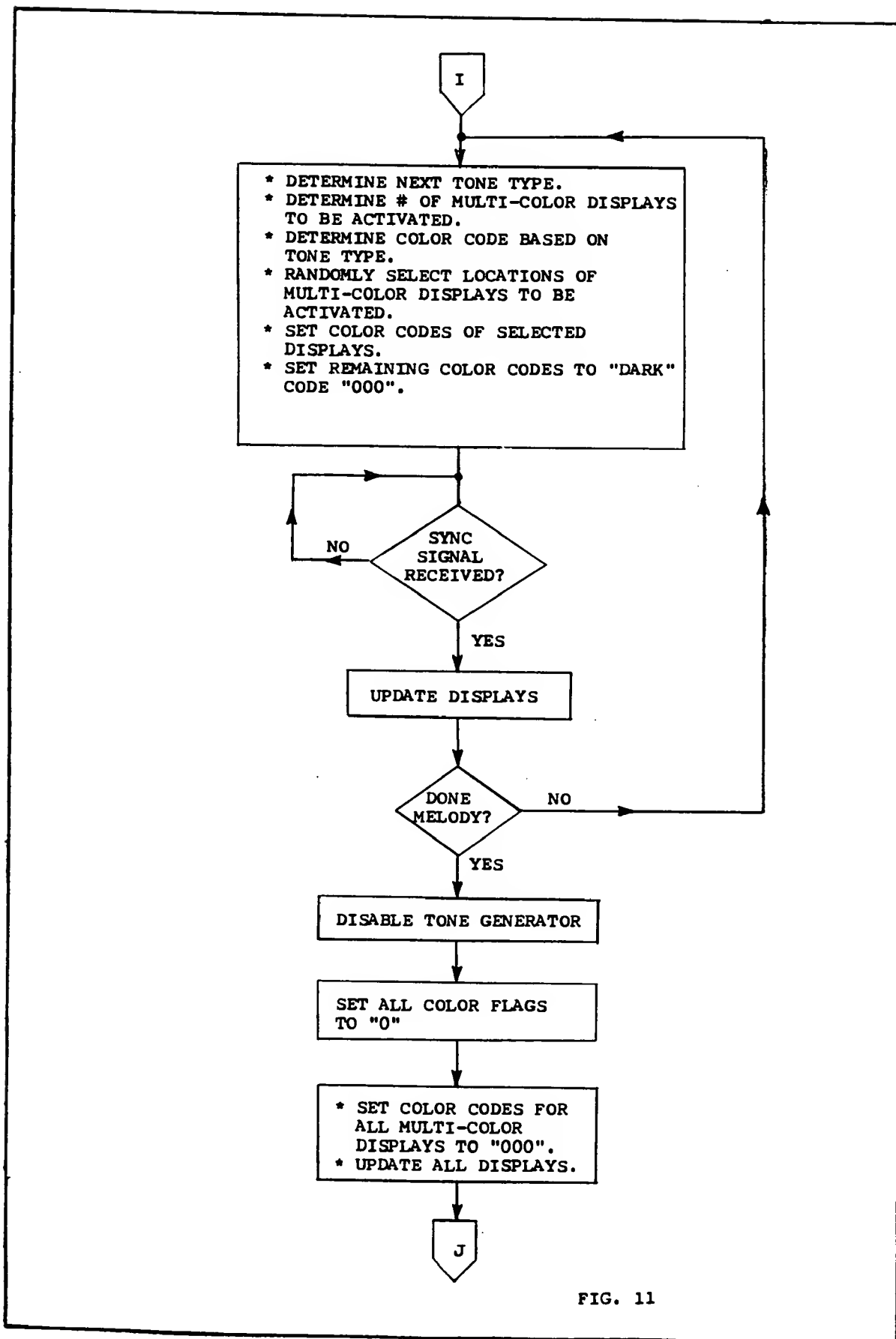


FIG. 11

07/754465

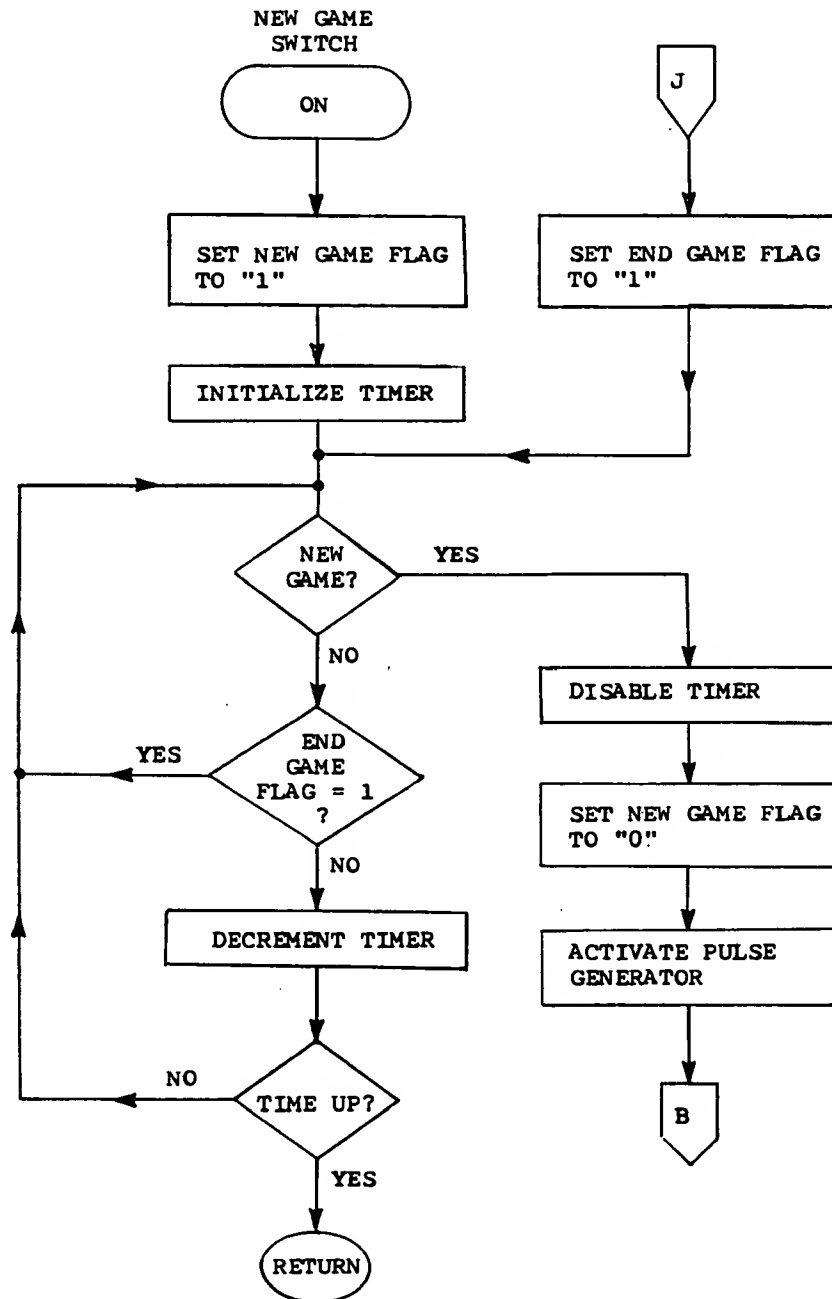


FIG. 12

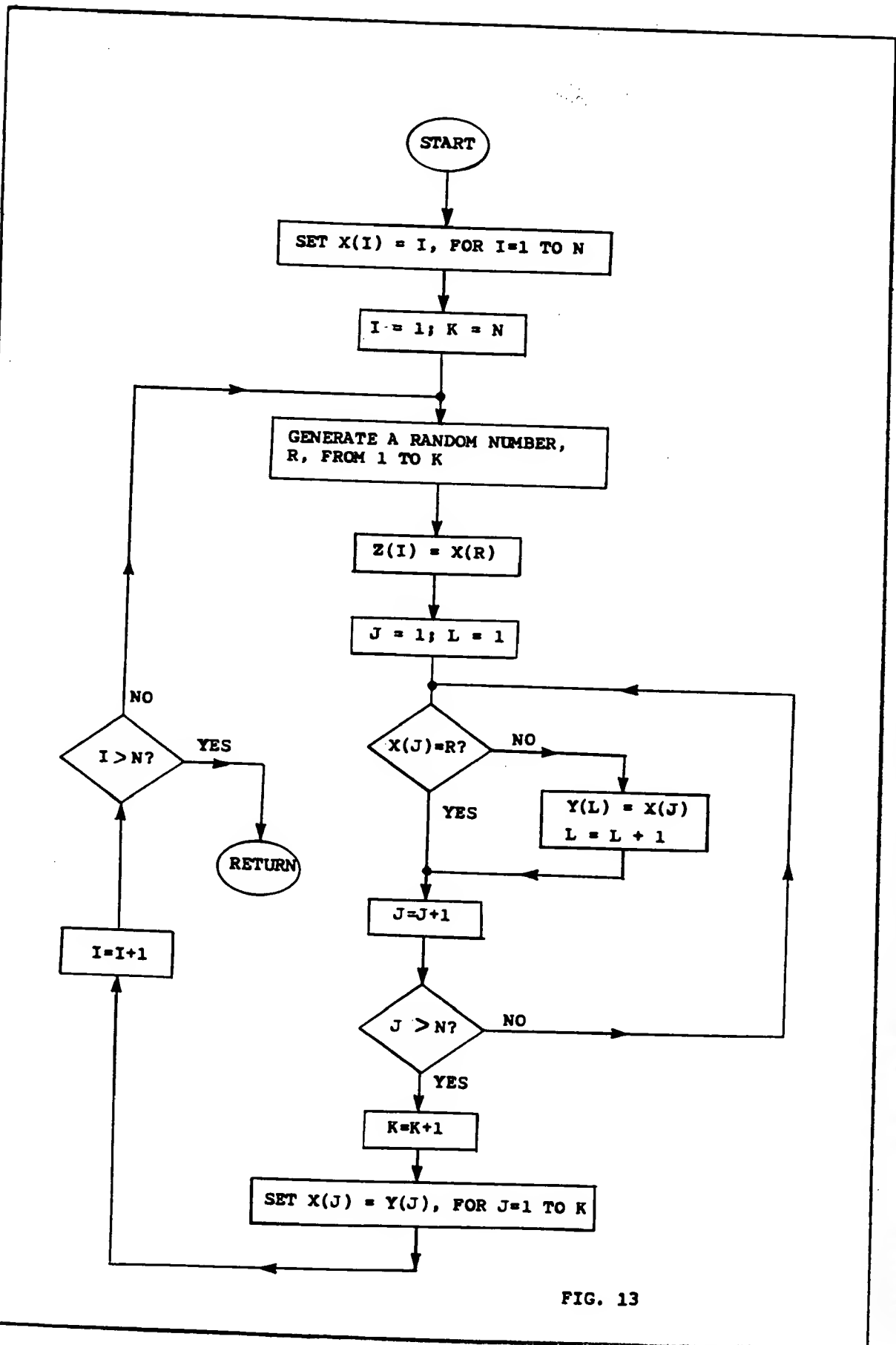


FIG. 13

01/754485

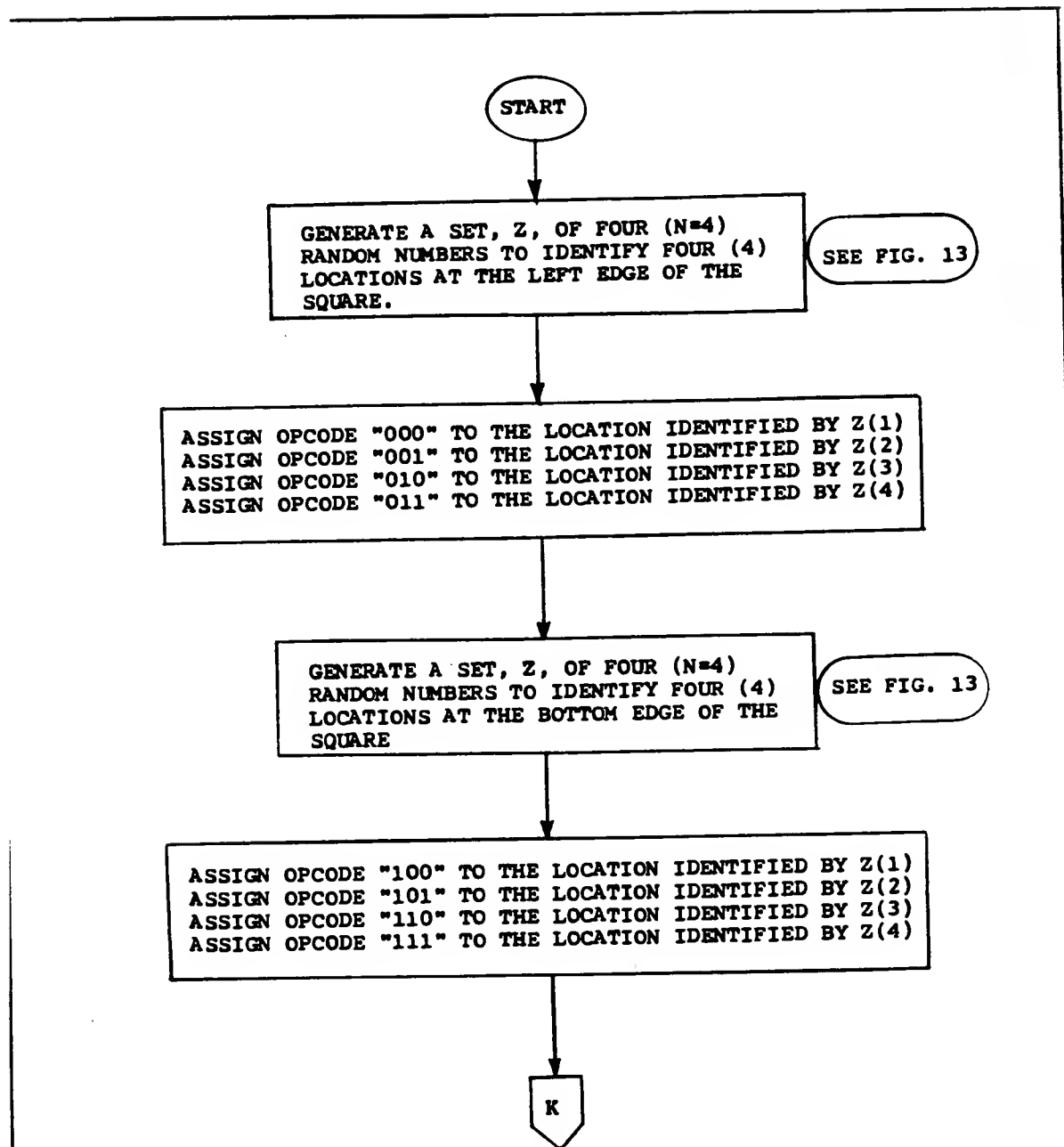


FIG. 14

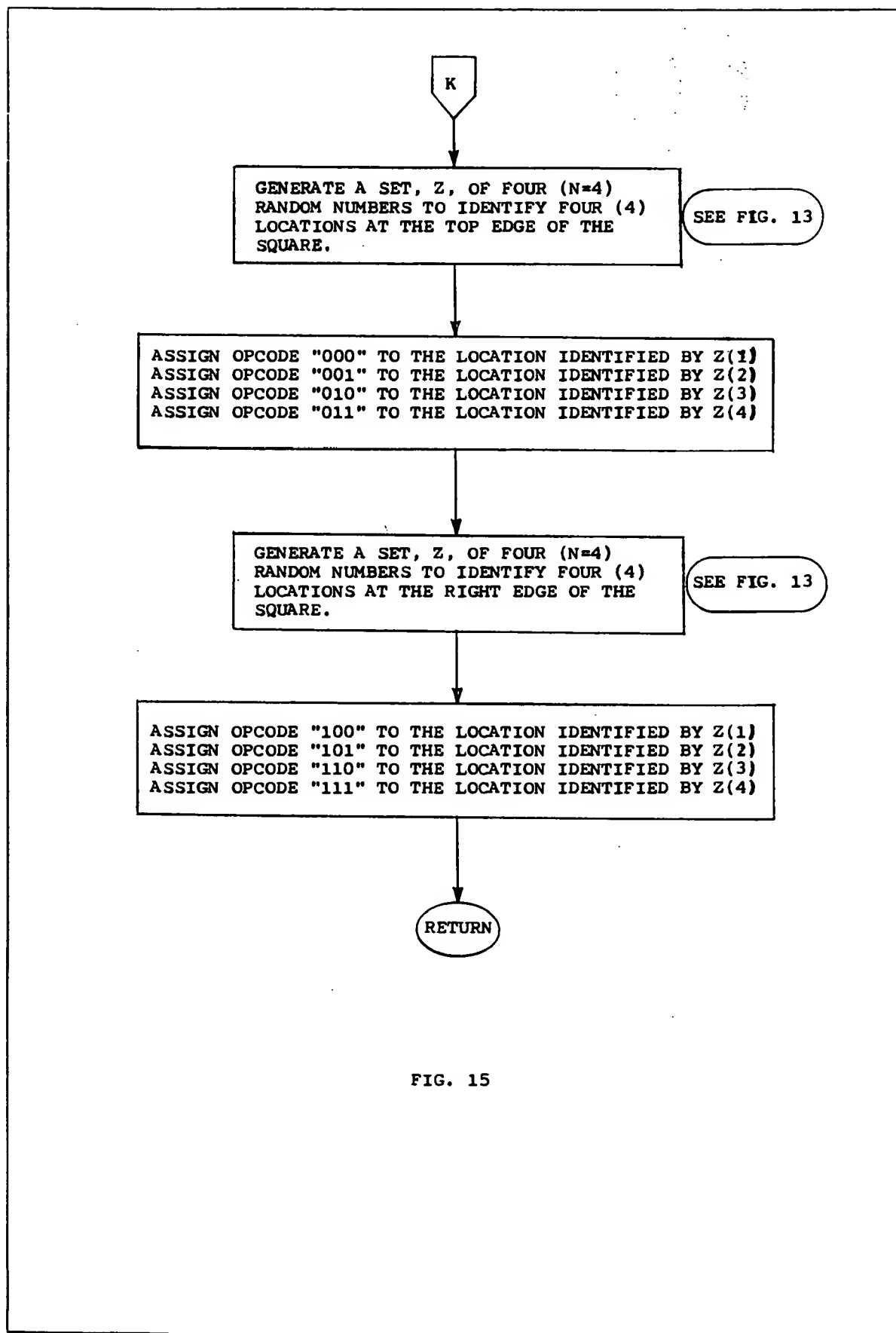


FIG. 15

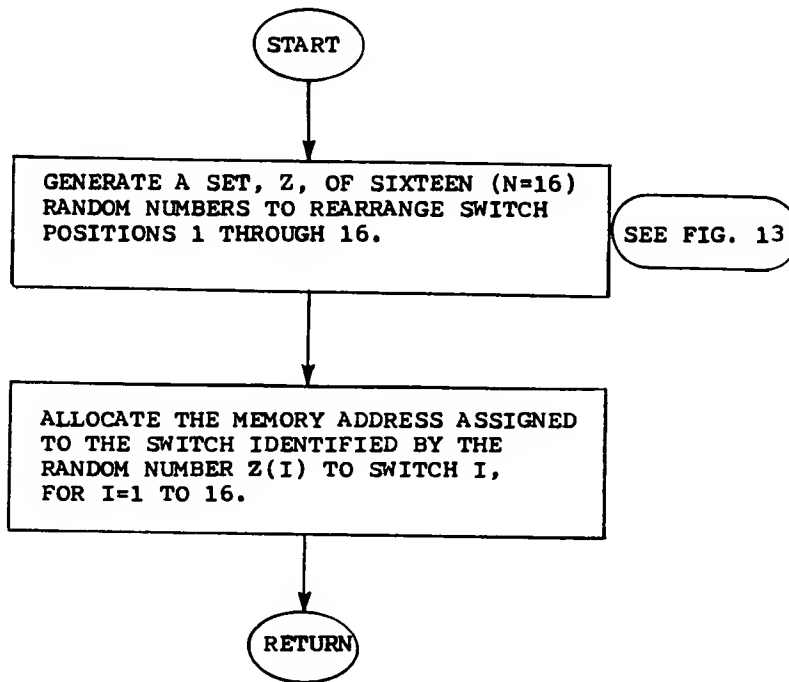


FIG. 16

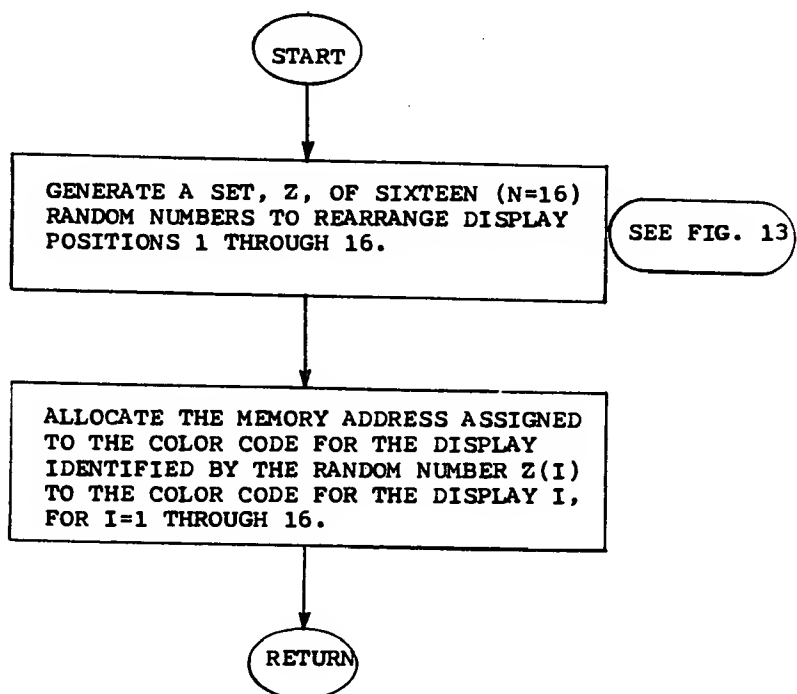


FIG. 17



LEGEND

N : DIMENSION OF RAINBOWX, i.e. NUMBER OF PREDETERMINED COLORS WHICH MAY BE DISPLAYED.  
 = 4 (FOR THE REFERED EMBODIMENT)  
 n : NUMBER OF BINARY BITS IN OPCODE AND COLOR CODE.  
 =  $\ln N + 1 = 3$  (FOR THE REFERED EMBODIMENT)  
 I : ROW NUMBER I, I = 1, ..., N  
 J : COLUMN NUMBER J, J = 1, ..., N  
 DIR : ROUTE DIRECTION BETWEEN TWO ADJACENT ROUTING SQUARES;  
       "R" DENOTES RIGHT  
       "U" DENOTES UP  
       "L" DENOTES LEFT  
       "D" DENOTES DOWN  
 T : OPCODE TRANSMITTER; T = 1, ..., 2N  
 R : OPCODE RECEIVER; R = 1, ..., 2N  
 RC(T) : RECEIVER CONNECTED TO TRANSMITTER "T"  
 TC(R) : TRANSMITTER CONNECTED TO RECEIVER "R"  
 W(I,J) : STATUS OF SWITCH LOCATED AT ROW "I" AND COLUMN "J"  
 TCODE(T): OPCODE AT TRANSMITTER "T"  
 RCODE(R): OPCODE AT RECEIVER "R"  
 C(R) : COLOR CODE AT RECEIVER "R"  
 x(i) : THE ith BIT OF OPCODE "X"  
 y(i) : THE ith BIT OF OPCODE "Y"  
 cb(i) : THE ith BIT OF COLOR CODE "C"  
 C1(I,J) : COLOR CODE AT THE RIGHT EDGE OF THE ROUTING SQUARE LOCATED AT ROW "I" AND COLUMN "J"  
 C2(I,J) : COLOR CODE AT THE TOP EDGE OF THE ROUTING SQUARE LOCATED AT ROW "I" AND COLUMN "J"  
 C(I,J) : COLOR CODE SELECTED FOR DISPLAY AT THE ROUTING SQUARE LOCATED AT ROW "I" AND COLUMN "J"  
 ⊕ : EXCLUSIVE OR BOOLEAN FUNCTION  
 ⊙ : INCLUSIVE OR BOOLEAN FUNCTION

EXPLANATION OF PROGRAM VARIABLES OF FIGS. 19 - 22

**NOTE:**

\* SEE FIGURE 18 FOR EXPLANATION OF PROGRAM VARIABLES.

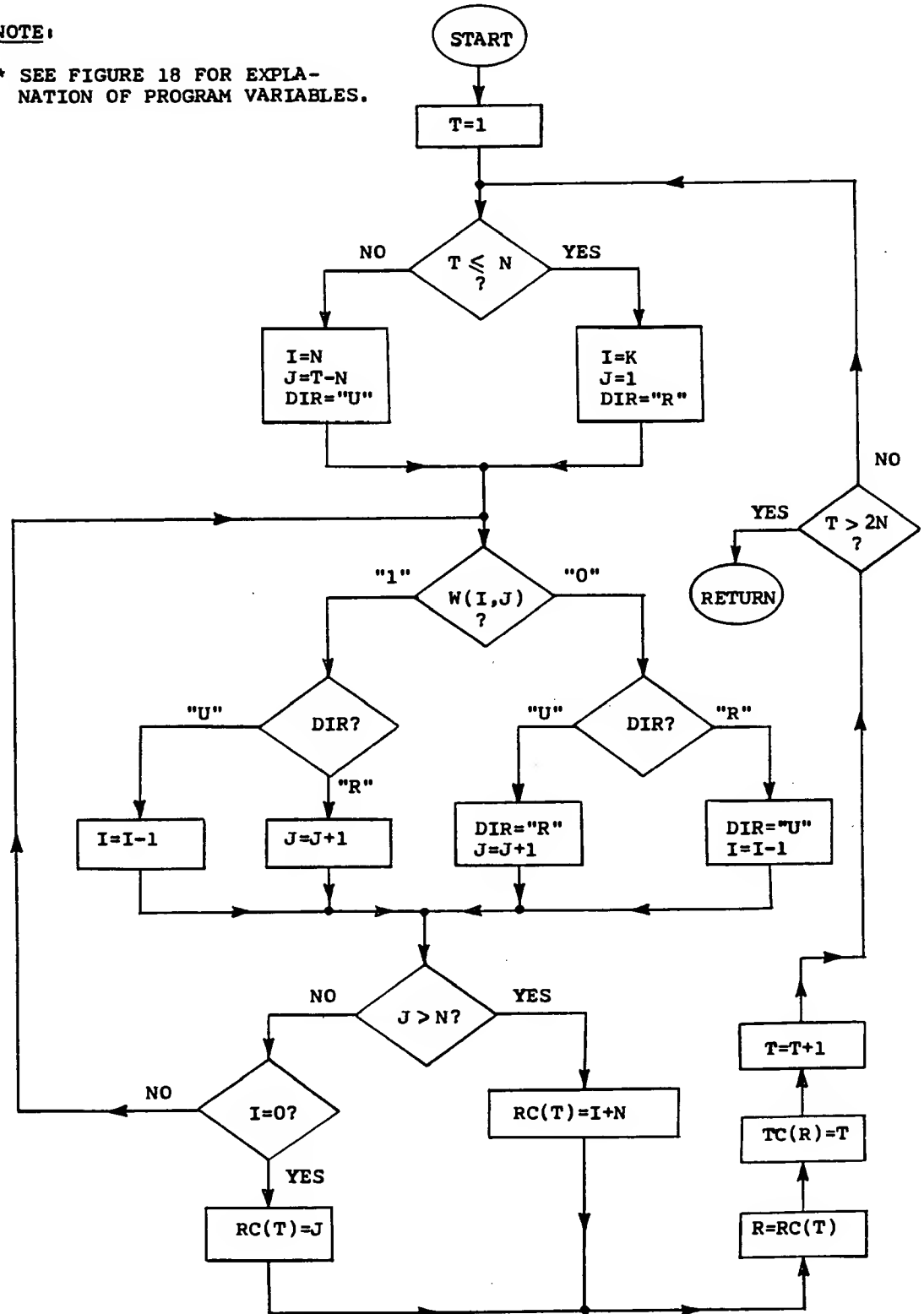
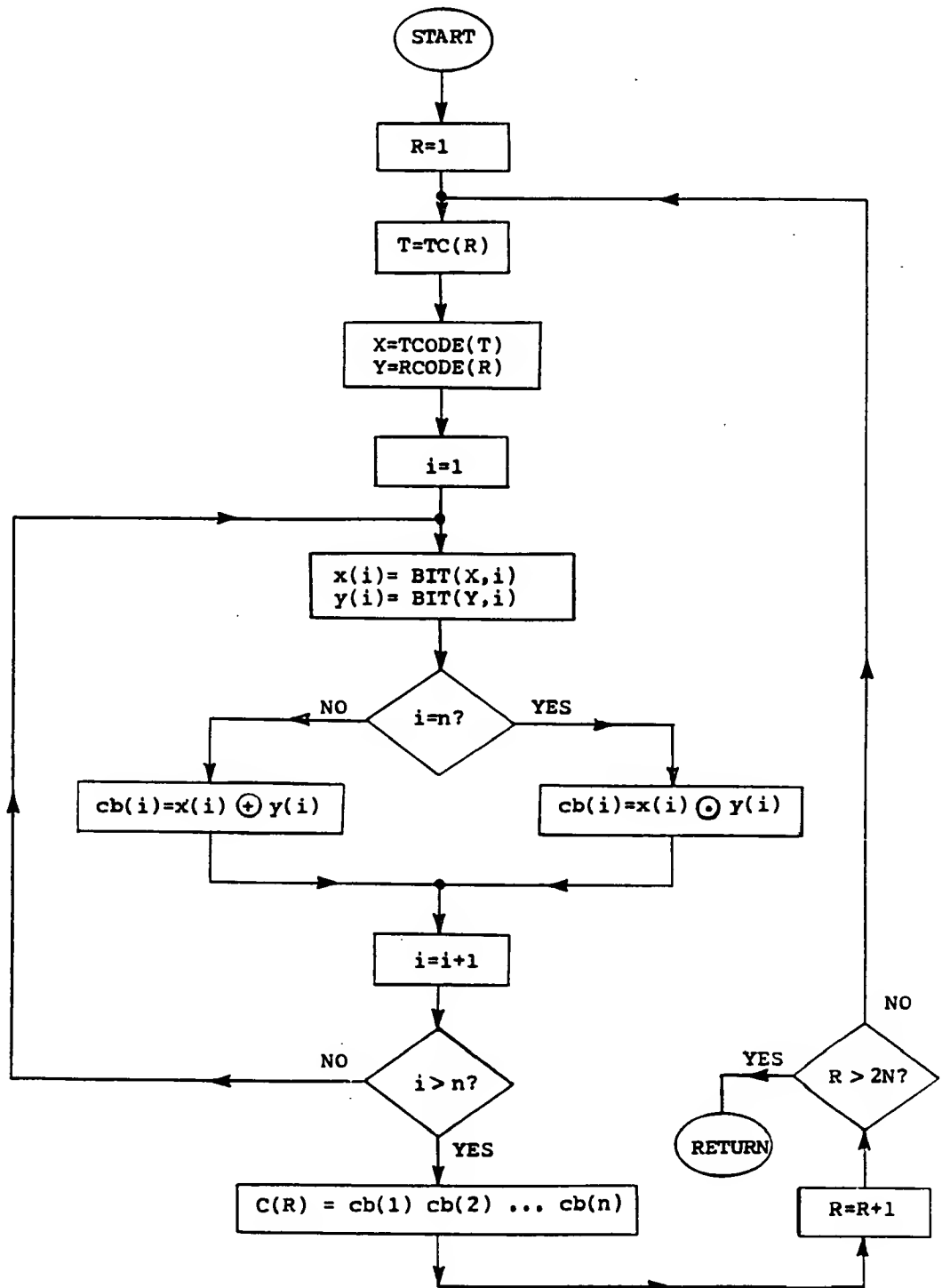


FIG. 19

**NOTE:**

\* SEE FIGURE 18 FOR EXPLANATION  
OF PROGRAM VARIABLES.

FIG. 20

**NOTE:**

\* SEE FIGURE 18 FOR  
EXPLANATION OF PROGRAM  
VARIABLES.

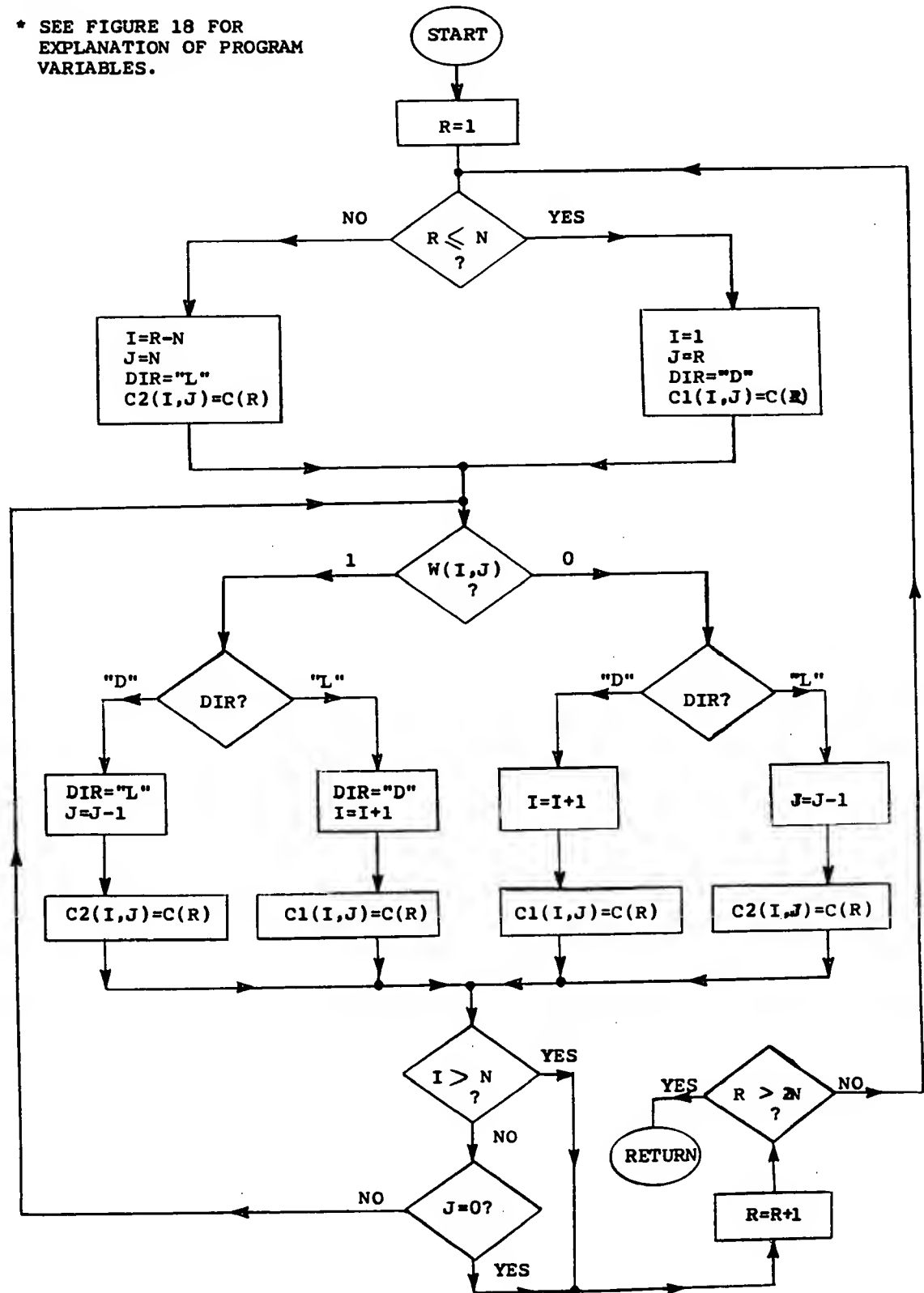
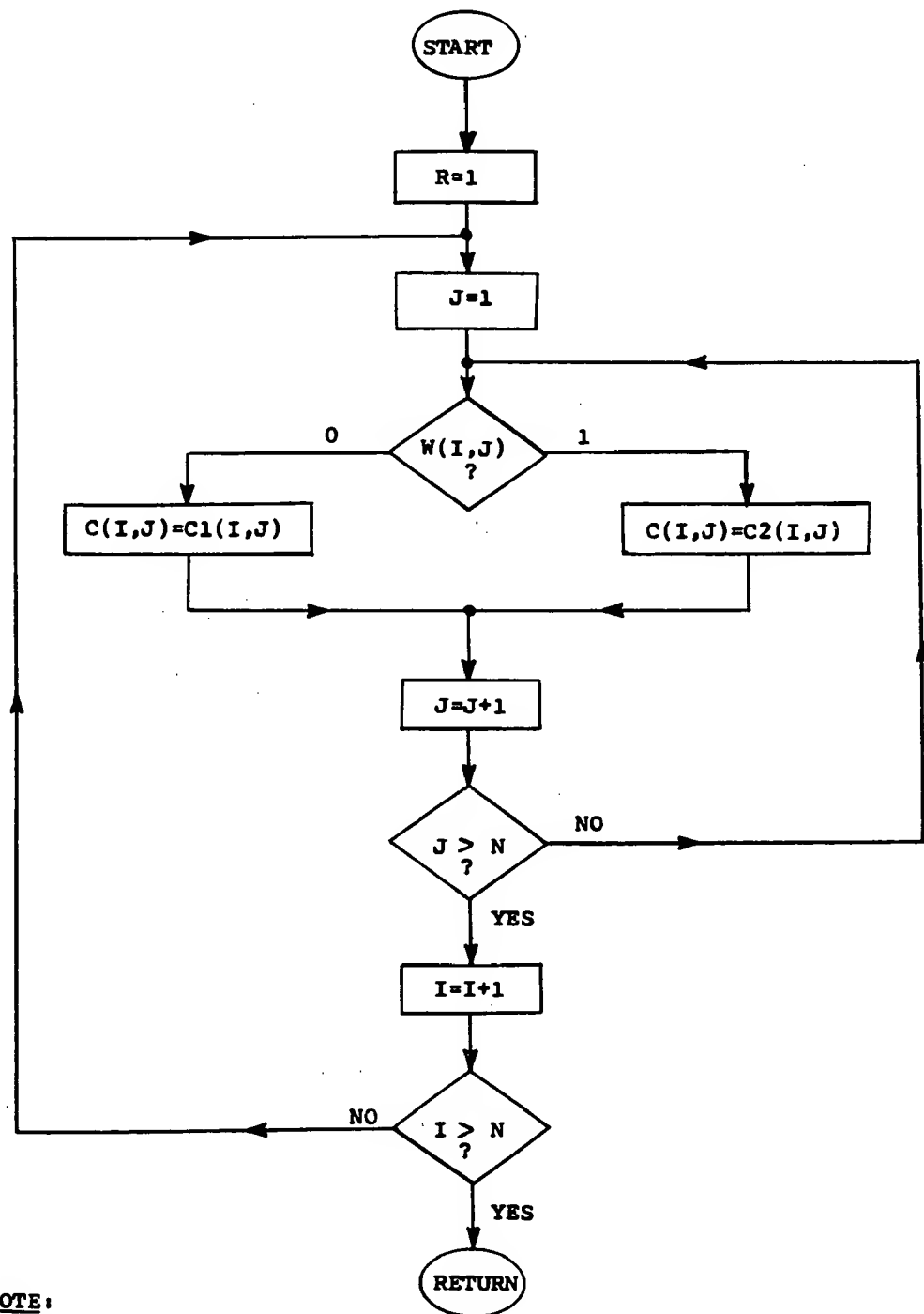


FIG. 21

**NOTE:**

\* SEE FIGURE 18 FOR EXPLANATION  
OF PROGRAM VARIABLES.

FIG. 22